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BIOLOGICAL PRODUCTS.

ESTABLISHMENTS LICENSED FOR THE PROPAGATION AND SALE OF VIRUSES, SERUMS, TOXINS, AND ANALOGOUS PRODUCTS.

The following table contains a list of the establishments holding licenses issued by the Treasury Department in accordance with the act of Congress approved July 1, 1902, entitled "An act to regulate the sale of viruses, serums, toxins, and analogous products in the District of Columbia, to regulate interstate traffic in said articles, and for other purposes."

The licenses granted to the following establishments for the products mentioned do not imply an indorsement of the claims made by the manufacturers for their respective preparations. The granting of a license means that inspections of the establishment concerned and laboratory examinations of samples of its products are made regularly to insure the observance of safe methods of manufacture, to ascertain freedom from contamination, and to determine the potency of diphtheria antitoxin, tetanus antitoxin, antidysenteric serum, anti-meningococcic serum, antipneumococcic serum, and typhoid vaccine, the only products for which potency standards or tests have been established.

The enumeration of the products is as follows: Serums are placed first, the antitoxins, being the older and more important, heading the list. The other products called antigens because they are supposed to stimulate the production of antibodies are arranged generally in the order of their origin, those considered most important being placed first. The items in each class are arranged alphabetically.

The order may be resumed thus:

1. Antitoxins (alphabetically).
2. Other serums (alphabetically).
3. Vaccine virus.
4. Rabies vaccine.
5. Tuberculin—

Old.

T. R.

B. E.

B. F.

Miscellaneous.

6. Bacterial vaccines (alphabetically by bacteria).
7. Sensitized bacterial vaccines (alphabetically by bacteria).
8. Miscellaneous products (alphabetically).

Establishments Licensed and Products for which Licenses have been Issued.

AMERICAN ESTABLISHMENTS.

Parke, Davis & Co., Detroit, Mich.—License No. 1:

Diphtheria antitoxin; tetanus antitoxin; antigonococcic serum; antimeningococcic serum; antipneumococcic serum; antistreptococcic serum; hemostatic serum (Lapenta); normal horse serum, thyroidectomized horse serum; vaccine virus; rabies vaccine (Cumming); tuberculin old; tuberculin T. R.; tuberculin B. E.; tuberculin B. F.; bacterial vaccines made from *acne* bacillus, *acne* diplococcus, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, prodigiosus bacillus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus, and typhoid bacillus; cholera prophylactic (Strong); diphtheria toxin-antitoxin mixture; modified bacterial derivatives prepared from colon bacillus, diphtheria bacillus, gonococcus, paratyphoid bacillus A, paratyphoid bacillus B, pneumococcus, pyocyaneus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus, and typhoid bacillus; pollen extract.

H. K. Mulford Co., Philadelphia, Pa.—License No. 2:

Diphtheria antitoxin; tetanus antitoxin; antianthrax serum; antidyenteric serum; antimelitensis serum; antimeningococcic serum; antipneumococcic serum; antistreptococcic serum; normal horse serum; vaccine virus; rabies vaccine; tuberculin old; tuberculin T. R.; tuberculin B. E.; tuberculin B. F.; tuberculin protease-free (Lyons); bacterial vaccines prepared from *acne* bacillus, cholera vibrio, colon bacillus, diphtheria bacillus, dysentery bacillus, Friedländer bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, plague bacillus, pneumococcus, pseudodiphtheria bacillus, pyocyaneus bacillus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; sensitized bacterial vaccines prepared from *acne* bacillus, cholera vibrio, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; pollen extract.

The Cutter Laboratory, Berkeley, Cal.—License No. 8:

Diphtheria antitoxin; tetanus antitoxin; antimeningococcic serum; antipneumococcic serum; antistreptococcic serum; normal horse serum; vaccine virus; rabies vaccine; tuberculin old; tuberculin T. R.; tuberculin B. E.; tuberculin B. F.; bacterial vaccines prepared from *acne* bacillus, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus.

Bureau of Laboratories, Department of Health, New York City.—License No. 14:

Diphtheria antitoxin; tetanus antitoxin; antimeningococcic serum; antipneumococcic serum; normal horse serum; vaccine virus; rabies vaccine; tuberculin old; and bacterial vaccines prepared from gonococcus, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; diphtheria toxin-antitoxin mixture.

National Vaccine and Antitoxin Institute, Washington, D. C.—License No. 16:

Diphtheria antitoxin; tetanus antitoxin; normal horse serum; rabies vaccine; bacterial vaccines prepared from *acne* bacillus, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, micrococcus tetragenus, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, pyocyaneus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus, and typhoid bacillus.

Lederle Antitoxin Laboratories, Pearl River, N. Y.—License No. 17:

Diphtheria antitoxin, tetanus antitoxin, antianthrax serum, antidyenteric serum, antigonococcic serum, antimeningococcic serum, antipneumococcic serum, antistreptococcic serum, normal horse serum, vaccine virus, rabies vaccine, tuberculin B. F., tuberculin bacillary suspension, bacterial vaccines prepared from *acne* bacillus, cholera vibrio, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, plague bacillus, pneumococcus, pseudodiphtheria bacillus, pyocyaneus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus, and typhoid bacillus, diphtheria toxin-antitoxin, pollen extract.

Bacterio-Therapeutic Laboratory, Asheville, N. C.—License No. 23:

Tuberculin old, tuberculin B. E., watery extract of tubercle bacilli (von Ruck), modified tubercle bacillus derivative (von Ruck).

Dr. G. H. Sherman, 3334 Jefferson Avenue, Detroit, Mich.—License No. 30:

Bacterial vaccines prepared from *acne* bacillus, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, nonvirulent tubercle bacillus, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus, and typhoid bacillus.

- Hygienic Laboratory, California State Board of Health, Berkeley, Cal.—License No. 40:
Rabies vaccine, sensitized sedimented typhoid vaccine (Gay-Claypo'e).
- The Abbott Laboratories, 4735 East Ravenswood Avenue, Chicago, Ill.—License No. 43:
Bacterial vaccines prepared from *aene* bacillus, colon bacillus, Friedländer bacillus, gonococcus, micrococcus catarrhalis, pertussis bacillus pneumococcus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus.
- Dr. W. T. McDougall, 640 Minnesota Avenue, Kansas City, Kans.—License No. 49:
Rabies vaccine.
- St. Louis Pasteur Institute, 928 North Grand Avenue, St. Louis, Mo.—License No. 50:
Rabies vaccine (dilution method).
- The Upjohn Co., Kalamazoo, Mich.—License No. 51:
Bacterial vaccines prepared from colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, micrococcus catarrhalis, micrococcus tetragenus, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus, and typhoid bacillus.
- E. R. Squibb & Sons' Research and Biological Laboratories, New Brunswick, N. J.—License No. 52:
Diphtheria antitoxin, tetanus antitoxin, antigonococcic serum, antimeisingococcic serum, antipneumococcic serum, antistreptococcic serum, normal horse serum, vaccine virus, rabies vaccine, bacterial vaccines prepared from *aene* bacillus, cholera vibrio, colon bacillus, dysentery bacillus, Friedländer bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, ozena bacillus, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, pyocyaneus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus, and typhoid bacillus, leucocytic extract from the horse.
- Laboratory of Clinical Pathology, 1208 Wyandotte Street, Kansas City, Mo.—License No. 53:
Rabies vaccine.
- Dr. James McL. Phillips, 2057 North High Street, Columbus, Ohio.—License No. 54:
Rabies vaccine.
- Eli Lilly & Co., Indianapolis, Ind.—License No. 56:
Diphtheria antitoxin, tetanus antitoxin, antistreptococcic serum, normal horse serum, normal sheep serum, vaccine virus, rabies vaccine (Harris), tuberculin old, tuberculin T. R., tuberculin B. E., tuberculin B. F., bacterial vaccines prepared from *aene* bacillus, cholera vibrio, colon bacillus, diphtheria bacillus, Friedländer bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, micrococcus tetragenus, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, plague bacillus, pneumococcus, pyocyaneus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus, and typhoid bacillus.
- Swan Myers Co., 219 North Senate Avenue, Indianapolis, Ind.—License No. 58:
Bacterial vaccines prepared from *aene* bacillus, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, micrococcus catarrhalis, micrococcus tetragenus, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus.
- Greeley Laboratories (Inc.), 655 Huntington Avenue, Boston, Mass.—License No. 60:
Bacterial vaccines prepared from *aene* bacillus, colon bacillus, gonococcus, micrococcus catarrhalis, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, and streptococcus.
- Gilliland Laboratories, Ambler, Pa.—License No. 63:
Diphtheria antitoxin; tetanus antitoxin; normal horse serum; vaccine virus; rabies vaccine; tuberculin, old; tuberculin, T. R.; tuberculin B. E.; tuberculin B. F.; bacterial vaccine prepared from the typhoid bacillus.
- Antitoxin and Vaccine Laboratory, Massachusetts State Department of Health, Boston, Mass.—License No. 64:
Diphtheria antitoxin; vaccine virus; bacterial vaccines prepared from paratyphoid bacillus A, paratyphoid bacillus B, and typhoid bacillus.
- United States Standard Serum Co., Woodworth, Wis.—License No. 65:
Diphtheria antitoxin.

FOREIGN ESTABLISHMENTS.

- Institut Pasteur de Paris, Paris, France.—License No. 11. Selling agents for the United States: Pasteur Laboratories of America, 366 West Eleventh Street, New York City:
Diphtheria antitoxin; tetanus antitoxin; venom antitoxin; antidysenteric serum; antimeningococcic serum; antipneumococcic serum; antistreptococcic serum; bacterial vaccine prepared from plague bacillus.
- Burroughs, Wellcome & Co., London, England.—License No. 18:
Diphtheria antitoxin; tetanus antitoxin; anticolon bacillus serum; antidysenteric serum; antigonococcic serum; antimeningococcic serum; antistaphylococcic serum; antistreptococcic serum; antityphoid serum; normal horse serum: tuberculin, old; tuberculin, T. R.: tuberculin, B. E.; tuberculin, B. F.; tuberculin (Wellcome); bacterial vaccines prepared from *aene* bacillus, cholera vibrio, colon bacillus, influenza bacillus, gonococcus, micrococcus catarrhalis, micrococcus melitensis, pneumococcus, septus bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus, and typhoid bacillus.

Swiss Serum and Vaccine Institute, Berne, Switzerland—License No. 21:

Diphtheria antitoxin; tetanus antitoxin; antidysenteric serum; antimeningococcic serum; antiplague serum; antipneumococcic serum; antistreptococcic serum; tuberculin, old; bacterial vaccines prepared from cholera vibrio, colon bacillus, plague bacillus, pneumococcus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus.

Institut Bactériologique de Lyon, Lyon, France.—License No. 22:

Diphtheria antitoxin; normal goat serum.

Dr. Carl Spengler, Davos-Platz, Switzerland.—License No. 35:

Antitubercle blood (Spengler).

Laboratorio di Terapia Sperimentale (Bruschettini), Genoa, Italy.—License No. 38:

Tuberculosis serum extract (Bruschettini); tuberculosis extract (Bruschettini).

Inoculation Department, St. Mary's Hospital, London, England.—License No. 48:

Bacterial vaccines prepared from acne bacillus, gonococcus, influenza bacillus, pneumococcus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, and streptococcus; pollen extract.